

CLAIMS

1. A gas generant composition comprising a nitrogen-
containing organic compound, an oxygen-containing inorganic
5 oxidizer, and a third component of at least one selected from
the following (1) through (4):

(1) manganese dioxide having a specific surface area not less
than 50 m²/g;

10 (2) copper oxide having a specific surface area not less than
1 m²/g;

(3) a molybdenum compound of at least one selected from the
group consisting of molybdenum dioxide, molybdenum trioxide,
molybdic acid and ammonium molybdate; and

15 (4) a mixture of manganese dioxide and at least one metal
oxide selected from the group consisting of copper oxides,
cobalt oxides, iron oxides and silver oxides.

2. The composition according to claim 1 wherein the
third component is (1) mentioned above and has a specific
surface area from 100 m²/g to 300 m²/g.

20 3. The composition according to claim 1 wherein the
third component is (1) mentioned above is contained in an
amount of 1 through 40% by weight of the composition.

4. The composition according to claim 1 wherein the
third component is (2) mentioned above and has a specific
25 surface area from 1.5 m²/g to 100 m²/g.

5. The composition according to claim 1 wherein the
third component is (2) mentioned above and has an average

particle size not more than 5 microns.

6. The composition according to claim 1 wherein the third component is (2) mentioned above and has an average particle size from 0.5 microns to 5 microns.

5 7. The composition according to claim 1 wherein the third component is (2) mentioned above is contained in an amount of 1 through 40% by weight of the composition.

8. The composition according to claim 1 wherein the third component is (3) mentioned above is contained in an
10 amount of 1 through 40% by weight of the composition.

9. The composition according to claim 1 wherein the metal oxide is at least one selected from the group consisting of CuO , Cu_2O , Co_3O_4 , Fe_2O_3 and Ag_2O .

10. The composition according to claim 1 wherein the third component is (4) mentioned above and the ratio of manganese dioxide to the metal oxide by weight is 0.2 through
15 50.

11. The composition according to claim 1 wherein the third component is (4) mentioned above is contained in an
20 amount of 1 through 40% by weight of the composition.

12. The composition according to claim 1 wherein the nitrogen-containing organic compound is at least one selected from the group consisting of organic compounds containing amino group or amido group and tetrazole derivatives.

25 13. The composition according to claim 12 wherein the organic compound containing amino group or amido group is azodicarbonamide or dicyandiamide.

14. The composition according to claim 12 wherein the tetrazole derivative is aminotetrazole.

15. The composition according to claim 1 wherein the oxygen-containing inorganic oxidizer is at least one selected from the group consisting of KNO_3 , $\text{Sr}(\text{NO}_3)_2$ and KClO_4 .

16. The composition according to claim 1 wherein the oxygen-containing inorganic oxidizer is a mixture of $\text{Sr}(\text{NO}_3)_2$ and KClO_4 .

17. The composition according to claim 1 wherein the nitrogen-containing organic compound is azodicarbonamide and the oxygen-containing inorganic oxidizer is KClO_4 .

18. The composition according to claim 1 wherein the third component is (1) mentioned above.

19. The composition according to claim 1 wherein the third component is (2) mentioned above and has a specific surface area not less than $1 \text{ m}^2/\text{g}$ and an average particle size not more than 5μ .

20. The composition according to claim 1 wherein the third component is (3) mentioned above.

21. The composition according to claim 1 wherein the third component is (4) mentioned above.

22. The composition according to claim 1 wherein two or more third components are contained.

23. The composition according to claim 1 wherein two or more third components are contained in an amount of 1 through 40% by weight of the composition.

24. An airbag system wherein the composition according

